u\_mass, 100 max topics, 100 iterations, 100 topics:

Number of topics: 1, Coherence score: -15.005999323502738

Number of topics: 2, Coherence score: -14.119775298156657

Number of topics: 3, Coherence score: -14.158201544059168

Number of topics: 4, Coherence score: -14.202786206287472

Number of topics: 5, Coherence score: -12.258252380621585

Number of topics: 6, Coherence score: -12.3976013502187

Number of topics: 7, Coherence score: -12.379981432636304

Number of topics: 8, Coherence score: -11.661358498865702

Number of topics: 9, Coherence score: -11.318318318964144

Number of topics: 10, Coherence score: -10.930157390285245

Number of topics: 11, Coherence score: -10.63161839805829

Number of topics: 12, Coherence score: -11.33994331627604

Number of topics: 13, Coherence score: -10.69865125250637

Number of topics: 14, Coherence score: -10.809798934487787

Number of topics: 15, Coherence score: -9.0371443372101

Number of topics: 16, Coherence score: -10.780606698934179

Number of topics: 17, Coherence score: -9.114191766921714

Number of topics: 18, Coherence score: -8.477663941996319

Number of topics: 19, Coherence score: -8.241693528490142

Number of topics: 20, Coherence score: -9.812248097307267

Number of topics: 21, Coherence score: -7.920442441816225

Number of topics: 22, Coherence score: -8.274762268640279

Number of topics: 23, Coherence score: -8.941108167554665

Number of topics: 24, Coherence score: -7.684284262594045

Number of topics: 25, Coherence score: -6.80464544618978

Number of topics: 26, Coherence score: -6.458346885556974

Number of topics: 27, Coherence score: -6.625006640916123

Number of topics: 28, Coherence score: -7.067826239794243

Number of topics: 29, Coherence score: -7.947726510691718

Number of topics: 30, Coherence score: -6.504721837635242

Number of topics: 31, Coherence score: -6.372974195331032

Number of topics: 32, Coherence score: -7.311553558740969

Number of topics: 33, Coherence score: -6.189021304263124

Number of topics: 34, Coherence score: -5.769363596027729

Number of topics: 35, Coherence score: -6.442932639624703

Number of topics: 36, Coherence score: -6.706664186937647

Number of topics: 37, Coherence score: -4.949991213588226

Number of topics: 38, Coherence score: -5.629610143516888

Number of topics: 39, Coherence score: -5.798260543635599

Number of topics: 40, Coherence score: -6.484785031478358

Number of topics: 41, Coherence score: -4.663149159097498

Number of topics: 42, Coherence score: -6.261322903849303

Number of topics: 43, Coherence score: -5.015210673945344

Number of topics: 44, Coherence score: -5.558592593386988

Number of topics: 45, Coherence score: -5.780639315916263

Number of topics: 46, Coherence score: -5.467443336283758

Number of topics: 47, Coherence score: -5.150228782057722

Number of topics: 48, Coherence score: -5.281672064234438

Number of topics: 49, Coherence score: -5.488202112571891

Number of topics: 50, Coherence score: -6.041615510478907

Number of topics: 51, Coherence score: -5.442102954662683

Number of topics: 52, Coherence score: -4.304778238883009

Number of topics: 53, Coherence score: -5.91675438222079

Number of topics: 54, Coherence score: -5.529144767289108

Number of topics: 55, Coherence score: -4.714590652465739

Number of topics: 56, Coherence score: -4.500217555265833

Number of topics: 57, Coherence score: -5.018502046706812

Number of topics: 58, Coherence score: -4.812474860506847

Number of topics: 59, Coherence score: -5.520211176198229

Number of topics: 60, Coherence score: -4.78331462890471

Number of topics: 61, Coherence score: -4.465889140126929

Number of topics: 62, Coherence score: -5.092648848514671

Number of topics: 63, Coherence score: -5.28551949555878

Number of topics: 64, Coherence score: -5.3663294754189454

Number of topics: 65, Coherence score: -5.730566922020057

Number of topics: 66, Coherence score: -5.159279593996317

Number of topics: 67, Coherence score: -5.28553112798257

Number of topics: 68, Coherence score: -5.389941519949228

Number of topics: 69, Coherence score: -5.096314035866458

Number of topics: 70, Coherence score: -5.4369912319839475

Number of topics: 71, Coherence score: -6.065349124742317

Number of topics: 72, Coherence score: -4.25992638919717

Number of topics: 73, Coherence score: -4.390670780446951

Number of topics: 74, Coherence score: -5.68029443966719

Number of topics: 75, Coherence score: -4.895214547403176

Number of topics: 76, Coherence score: -4.54499242004911

Number of topics: 77, Coherence score: -5.6066657924492596

Number of topics: 78, Coherence score: -5.3116330766039725

Number of topics: 79, Coherence score: -4.9591914680320865

Number of topics: 80, Coherence score: -5.344134202539235

Number of topics: 81, Coherence score: -5.453666997948799

Number of topics: 82, Coherence score: -4.626666524279194

Number of topics: 83, Coherence score: -5.856783691261071

Number of topics: 84, Coherence score: -5.653449981193248

Number of topics: 85, Coherence score: -5.1183546280235275

Number of topics: 86, Coherence score: -5.145566260090957

Number of topics: 87, Coherence score: -6.101041963375916

Number of topics: 88, Coherence score: -5.68848627781172

Number of topics: 89, Coherence score: -5.071411674354294

Number of topics: 90, Coherence score: -5.709115152437436

Number of topics: 91, Coherence score: -6.544566540713322

Number of topics: 92, Coherence score: -5.2199535299311615

Number of topics: 93, Coherence score: -5.64273932574569

Number of topics: 94, Coherence score: -5.45721502517684

Number of topics: 95, Coherence score: -5.412931544327365

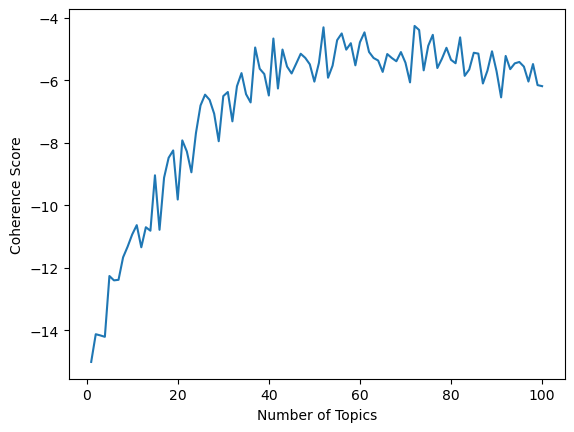
Number of topics: 96, Coherence score: -5.560992506182923

Number of topics: 97, Coherence score: -6.038825205662046

Number of topics: 98, Coherence score: -5.479355053918334

Number of topics: 99, Coherence score: -6.152249418724879

Number of topics: 100, Coherence score: -6.186385969333176



After running topic modelling:

[(0, '0.011\*"angeles" + 0.011\*"los" + 0.011\*"interview" + 0.009\*"intellectual" + 0.009\*"bottom" + 0.008\*"burden" + 0.008\*"team"'), (1, '0.016\*"humiliation" + 0.016\*"enact" + 0.016\*"crazy" + 0.016\*"aide" + 0.011\*"mall" + 0.011\*"october" + 0.011\*"space"'), (2, '0.056\*"tuition" + 0.024\*"endowment" + 0.024\*"machine" + 0.024\*"university" + 0.020\*"bishop" + 0.016\*"request" + 0.016\*"correctness"'), (3, '0.020\*"ignore" + 0.013\*"addiction" + 0.010\*"globe" + 0.010\*"wisconsin" + 0.010\*"phrase" + 0.010\*"mill" + 0.010\*"sheriff"'), (4, '0.029\*"veterans" + 0.020\*"mental" + 0.017\*"discipline" + 0.015\*"affair" + 0.011\*"wrongdoing" + 0.011\*"trust" + 0.010\*"sole"'), (5, '0.009\*"comfortable" + 0.008\*"rudy" + 0.008\*"capability" + 0.007\*"rebuilding" + 0.007\*"army" + 0.007\*"narrative" + 0.007\*"compassion"'), (6, '0.030\*"apologize" + 0.015\*"wisconsin" + 0.015\*"ban" + 0.014\*"classify" + 0.012\*"speaking" + 0.011\*"legal" + 0.011\*"pretend"'), (7, '0.016\*"venezuela" + 0.013\*"attitude" + 0.012\*"net" + 0.012\*"deduction" + 0.012\*"deduct" + 0.011\*"interview" + 0.010\*"screening"'), (8, '0.024\*"university" + 0.023\*"evangelical" + 0.016\*"tuition" + 0.015\*"opioid" + 0.015\*"endowment" + 0.014\*"johnson" + 0.013\*"penny"'), (9, '0.016\*"bishop" + 0.012\*"addiction" + 0.012\*"ban" + 0.012\*"machine" + 0.011\*"oppress" + 0.009\*"capability" + 0.008\*"enrich"'), (10, '0.028\*"putin" + 0.019\*"yeah" + 0.016\*"jewish" + 0.016\*"buy" + 0.015\*"television" + 0.014\*"convention" + 0.012\*"relationship"'), (11, '0.025\*"putin" + 0.021\*"television" + 0.020\*"yeah" + 0.019\*"buy" + 0.013\*"convention" + 0.012\*"russian" + 0.011\*"interesting"'), (12, '0.024\*"jewish" + 0.019\*"table" + 0.018\*"sponsor" + 0.016\*"iowa" + 0.012\*"behavior" + 0.011\*"mile" + 0.011\*"firm"'), (13, '0.029\*"estate" + 0.025\*"colorado" + 0.017\*"laughter" + 0.014\*"comeback" + 0.012\*"developer" + 0.012\*"mall" + 0.010\*"revitalize"'), (14, '0.057\*"laughter" + 0.011\*"machine" + 0.011\*"christian" + 0.011\*"christians" + 0.010\*"johnson" + 0.010\*"evangelical" + 0.010\*"penalty"'), (15, '0.046\*"rudy" + 0.027\*"fantastic" + 0.027\*"robert" + 0.021\*"boy" + 0.020\*"ben" + 0.014\*"reclaim" + 0.014\*"star"'), (16, '0.015\*"penalty" + 0.013\*"clarity" + 0.013\*"opposition" + 0.011\*"screening" + 0.010\*"suppose" + 0.010\*"recruiting" + 0.010\*"draw"'), (17, '0.013\*"ban" + 0.013\*"worth" + 0.012\*"bush" + 0.011\*"site" + 0.011\*"legal" + 0.011\*"net" + 0.010\*"asset"'), (18, '0.017\*"mall" + 0.015\*"colorado" + 0.014\*"california" + 0.013\*"custody" + 0.013\*"estate" + 0.013\*"crazy" + 0.012\*"revitalize"'), (19, '0.018\*"temperament" + 0.018\*"iowa" + 0.013\*"mendoza" + 0.012\*"vision" + 0.011\*"bottom" + 0.010\*"video" + 0.010\*"oppressive"')]

After the evaluation of our models:

[(0, '0.013\*"rudy" + 0.012\*"machine" + 0.007\*"robert" + 0.007\*"ban" + 0.006\*"fantastic" + 0.006\*"star" + 0.006\*"senator"'), (1, '0.012\*"laughter" + 0.010\*"iowa" + 0.008\*"yeah" + 0.008\*"wisconsin" + 0.008\*"buy" + 0.007\*"worth" + 0.007\*"stupid"'), (2, '0.011\*"bishop" + 0.011\*"tuition" + 0.008\*"remark" + 0.008\*"machine" + 0.007\*"television" + 0.006\*"interview" + 0.006\*"ban"'), (3, '0.009\*"university" + 0.008\*"narrative" + 0.006\*"angeles" + 0.006\*"patient" + 0.006\*"los" + 0.006\*"addiction" + 0.005\*"legal"'), (4, '0.020\*"laughter" + 0.010\*"apologize" + 0.007\*"jamiel" + 0.006\*"evangelical" + 0.006\*"johnson" + 0.005\*"hostage" + 0.005\*"humiliation"'), (5, '0.010\*"evangelical" + 0.010\*"estate" + 0.009\*"putin" + 0.008\*"colorado" + 0.008\*"veterans" + 0.008\*"laughter" + 0.007\*"convention"'), (6, '0.010\*"jewish" + 0.009\*"table" + 0.007\*"deduction" + 0.007\*"sponsor" + 0.007\*"team" + 0.006\*"net" + 0.006\*"ignore"')]

u\_mass, 200 max topics, 100 iterations, 20 topics:

Number of topics: 1, Coherence score: -15.005999323502738

Number of topics: 2, Coherence score: -14.119775298156657

Number of topics: 3, Coherence score: -14.158201544059168

Number of topics: 4, Coherence score: -14.202786206287472

Number of topics: 5, Coherence score: -12.258252380621585

Number of topics: 6, Coherence score: -12.3976013502187

Number of topics: 7, Coherence score: -12.379981432636304

Number of topics: 8, Coherence score: -11.661358498865702

Number of topics: 9, Coherence score: -11.318318318964144

Number of topics: 10, Coherence score: -10.930157390285245

Number of topics: 11, Coherence score: -10.63161839805829

Number of topics: 12, Coherence score: -11.33994331627604

Number of topics: 13, Coherence score: -10.69865125250637

Number of topics: 14, Coherence score: -10.809798934487787

Number of topics: 15, Coherence score: -9.0371443372101

Number of topics: 16, Coherence score: -10.780606698934179

Number of topics: 17, Coherence score: -9.114191766921714

Number of topics: 18, Coherence score: -8.477663941996319

Number of topics: 19, Coherence score: -8.241693528490142

Number of topics: 20, Coherence score: -9.812248097307267

Number of topics: 21, Coherence score: -7.920442441816225

Number of topics: 22, Coherence score: -8.274762268640279

Number of topics: 23, Coherence score: -8.941108167554665

Number of topics: 24, Coherence score: -7.684284262594045

Number of topics: 25, Coherence score: -6.80464544618978

Number of topics: 26, Coherence score: -6.458346885556974

Number of topics: 27, Coherence score: -6.625006640916123

Number of topics: 28, Coherence score: -7.067826239794243

Number of topics: 29, Coherence score: -7.947726510691718

Number of topics: 30, Coherence score: -6.504721837635242

Number of topics: 31, Coherence score: -6.372974195331032

Number of topics: 32, Coherence score: -7.311553558740969

Number of topics: 33, Coherence score: -6.189021304263124

Number of topics: 34, Coherence score: -5.769363596027729

Number of topics: 35, Coherence score: -6.442932639624703

Number of topics: 36, Coherence score: -6.706664186937647

Number of topics: 37, Coherence score: -4.949991213588226

Number of topics: 38, Coherence score: -5.629610143516888

Number of topics: 39, Coherence score: -5.798260543635599

Number of topics: 40, Coherence score: -6.484785031478358

Number of topics: 41, Coherence score: -4.663149159097498

Number of topics: 42, Coherence score: -6.261322903849303

Number of topics: 43, Coherence score: -5.015210673945344

Number of topics: 44, Coherence score: -5.558592593386988

Number of topics: 45, Coherence score: -5.780639315916263

Number of topics: 46, Coherence score: -5.467443336283758

Number of topics: 47, Coherence score: -5.150228782057722

Number of topics: 48, Coherence score: -5.281672064234438

Number of topics: 49, Coherence score: -5.488202112571891

Number of topics: 50, Coherence score: -6.041615510478907

Number of topics: 51, Coherence score: -5.442102954662683

Number of topics: 52, Coherence score: -4.304778238883009

Number of topics: 53, Coherence score: -5.91675438222079

Number of topics: 54, Coherence score: -5.529144767289108

Number of topics: 55, Coherence score: -4.714590652465739

Number of topics: 56, Coherence score: -4.500217555265833

Number of topics: 57, Coherence score: -5.018502046706812

Number of topics: 58, Coherence score: -4.812474860506847

Number of topics: 59, Coherence score: -5.520211176198229

Number of topics: 60, Coherence score: -4.78331462890471

Number of topics: 61, Coherence score: -4.465889140126929

Number of topics: 62, Coherence score: -5.092648848514671

Number of topics: 63, Coherence score: -5.28551949555878

Number of topics: 64, Coherence score: -5.3663294754189454

Number of topics: 65, Coherence score: -5.730566922020057

Number of topics: 66, Coherence score: -5.159279593996317

Number of topics: 67, Coherence score: -5.28553112798257

Number of topics: 68, Coherence score: -5.389941519949228

Number of topics: 69, Coherence score: -5.096314035866458

Number of topics: 70, Coherence score: -5.4369912319839475

Number of topics: 71, Coherence score: -6.065349124742317

Number of topics: 72, Coherence score: -4.25992638919717

Number of topics: 73, Coherence score: -4.390670780446951

Number of topics: 74, Coherence score: -5.68029443966719

Number of topics: 75, Coherence score: -4.895214547403176

Number of topics: 76, Coherence score: -4.54499242004911

Number of topics: 77, Coherence score: -5.6066657924492596

Number of topics: 78, Coherence score: -5.3116330766039725

Number of topics: 79, Coherence score: -4.9591914680320865

Number of topics: 80, Coherence score: -5.344134202539235

Number of topics: 81, Coherence score: -5.453666997948799

Number of topics: 82, Coherence score: -4.626666524279194

Number of topics: 83, Coherence score: -5.856783691261071

Number of topics: 84, Coherence score: -5.653449981193248

Number of topics: 85, Coherence score: -5.1183546280235275

Number of topics: 86, Coherence score: -5.145566260090957

Number of topics: 87, Coherence score: -6.101041963375916

Number of topics: 88, Coherence score: -5.68848627781172

Number of topics: 89, Coherence score: -5.071411674354294

Number of topics: 90, Coherence score: -5.709115152437436

Number of topics: 91, Coherence score: -6.544566540713322

Number of topics: 92, Coherence score: -5.2199535299311615

Number of topics: 93, Coherence score: -5.64273932574569

Number of topics: 94, Coherence score: -5.45721502517684

Number of topics: 95, Coherence score: -5.412931544327365

Number of topics: 96, Coherence score: -5.560992506182923

Number of topics: 97, Coherence score: -6.038825205662046

Number of topics: 98, Coherence score: -5.479355053918334

Number of topics: 99, Coherence score: -6.152249418724879

Number of topics: 100, Coherence score: -6.186385969333176

Number of topics: 101, Coherence score: -5.151882524111343

Number of topics: 102, Coherence score: -5.802325459989454

Number of topics: 103, Coherence score: -5.437935833685219

Number of topics: 104, Coherence score: -5.849728703104889

Number of topics: 105, Coherence score: -5.247773155538992

Number of topics: 106, Coherence score: -5.654133165361412

Number of topics: 107, Coherence score: -6.28295994634837

Number of topics: 108, Coherence score: -6.2970918501759

Number of topics: 109, Coherence score: -5.654283420898077

Number of topics: 110, Coherence score: -6.293036118027355

Number of topics: 111, Coherence score: -6.637167784745996

Number of topics: 112, Coherence score: -6.259337962497099

Number of topics: 113, Coherence score: -6.433245756539818

Number of topics: 114, Coherence score: -6.400900879304233

Number of topics: 115, Coherence score: -6.049193546858915

Number of topics: 116, Coherence score: -6.042262084623524

Number of topics: 117, Coherence score: -6.414018712725519

Number of topics: 118, Coherence score: -6.093663916475619

Number of topics: 119, Coherence score: -6.153486369034158

Number of topics: 120, Coherence score: -5.651833164488056

Number of topics: 121, Coherence score: -5.999472497942502

Number of topics: 122, Coherence score: -6.4378309588758

Number of topics: 123, Coherence score: -7.177760927480214

Number of topics: 124, Coherence score: -6.9861104514334045

Number of topics: 125, Coherence score: -6.4987329892447985

Number of topics: 126, Coherence score: -6.49482895521071

Number of topics: 127, Coherence score: -6.161011472064172

Number of topics: 128, Coherence score: -5.877288111266372

Number of topics: 129, Coherence score: -6.04507617051964

Number of topics: 130, Coherence score: -6.401480031259657

Number of topics: 131, Coherence score: -6.379110908842642

Number of topics: 132, Coherence score: -6.724631164878687

Number of topics: 133, Coherence score: -6.01110057916095

Number of topics: 134, Coherence score: -6.4831313562429695

Number of topics: 135, Coherence score: -6.696865384964376

Number of topics: 136, Coherence score: -6.359825504581664

Number of topics: 137, Coherence score: -6.054523966231208

Number of topics: 138, Coherence score: -6.927194909562121

Number of topics: 139, Coherence score: -6.2523909169105565

Number of topics: 140, Coherence score: -5.7163499365224135

Number of topics: 141, Coherence score: -6.59934557702312

Number of topics: 142, Coherence score: -6.553910468033827

Number of topics: 143, Coherence score: -6.758589101959702

Number of topics: 144, Coherence score: -6.333274335968238

Number of topics: 145, Coherence score: -6.8708274829390446

Number of topics: 146, Coherence score: -6.337679809121245

Number of topics: 147, Coherence score: -7.199270756264162

Number of topics: 148, Coherence score: -6.195420444217805

Number of topics: 149, Coherence score: -7.317027994621548

Number of topics: 150, Coherence score: -6.65547937108299

Number of topics: 151, Coherence score: -7.218297847923493

Number of topics: 152, Coherence score: -7.504013286419015

Number of topics: 153, Coherence score: -6.420101151925512

Number of topics: 154, Coherence score: -7.029440275126499

Number of topics: 155, Coherence score: -7.260754423158937

Number of topics: 156, Coherence score: -6.67217684074435

Number of topics: 157, Coherence score: -6.149462229287291

Number of topics: 158, Coherence score: -6.167309522911188

Number of topics: 159, Coherence score: -6.8578015769430065

Number of topics: 160, Coherence score: -6.562032310191464

Number of topics: 161, Coherence score: -7.25544316746418

Number of topics: 162, Coherence score: -6.892062045477773

Number of topics: 163, Coherence score: -6.947425125760292

Number of topics: 164, Coherence score: -7.238859260543932

Number of topics: 165, Coherence score: -7.593583447317647

Number of topics: 166, Coherence score: -6.495293870925211

Number of topics: 167, Coherence score: -7.4381484664042254

Number of topics: 168, Coherence score: -6.881100581452846

Number of topics: 169, Coherence score: -7.026233134750691

Number of topics: 170, Coherence score: -6.980753721522981

Number of topics: 171, Coherence score: -7.394545125977241

Number of topics: 172, Coherence score: -6.916940715726659

Number of topics: 173, Coherence score: -6.934969832069668

Number of topics: 174, Coherence score: -6.6557319397743075

Number of topics: 175, Coherence score: -7.291244195731718

Number of topics: 176, Coherence score: -7.245337569827284

Number of topics: 177, Coherence score: -7.4581992953518474

Number of topics: 178, Coherence score: -7.003206513019085

Number of topics: 179, Coherence score: -7.814617961488162

Number of topics: 180, Coherence score: -7.238480285744754

Number of topics: 181, Coherence score: -7.1231018256641985

Number of topics: 182, Coherence score: -6.873896715279299

Number of topics: 183, Coherence score: -8.302995329619561

Number of topics: 184, Coherence score: -7.5424772565022105

Number of topics: 185, Coherence score: -7.04403653910841

Number of topics: 186, Coherence score: -7.110558799351991

Number of topics: 187, Coherence score: -7.157574639376708

Number of topics: 188, Coherence score: -7.369520360803079

Number of topics: 189, Coherence score: -7.28329562898562

Number of topics: 190, Coherence score: -7.269305700145061

Number of topics: 191, Coherence score: -7.355839885232606

Number of topics: 192, Coherence score: -7.527389932207588

Number of topics: 193, Coherence score: -7.298304569962666

Number of topics: 194, Coherence score: -7.353771999208685

Number of topics: 195, Coherence score: -6.832342093411253

Number of topics: 196, Coherence score: -6.961461514216683

Number of topics: 197, Coherence score: -7.881369792279135

Number of topics: 198, Coherence score: -7.512462875567128

Number of topics: 199, Coherence score: -7.538611939426688

Number of topics: 200, Coherence score: -7.149632164315625

